

FIGURE 1

200

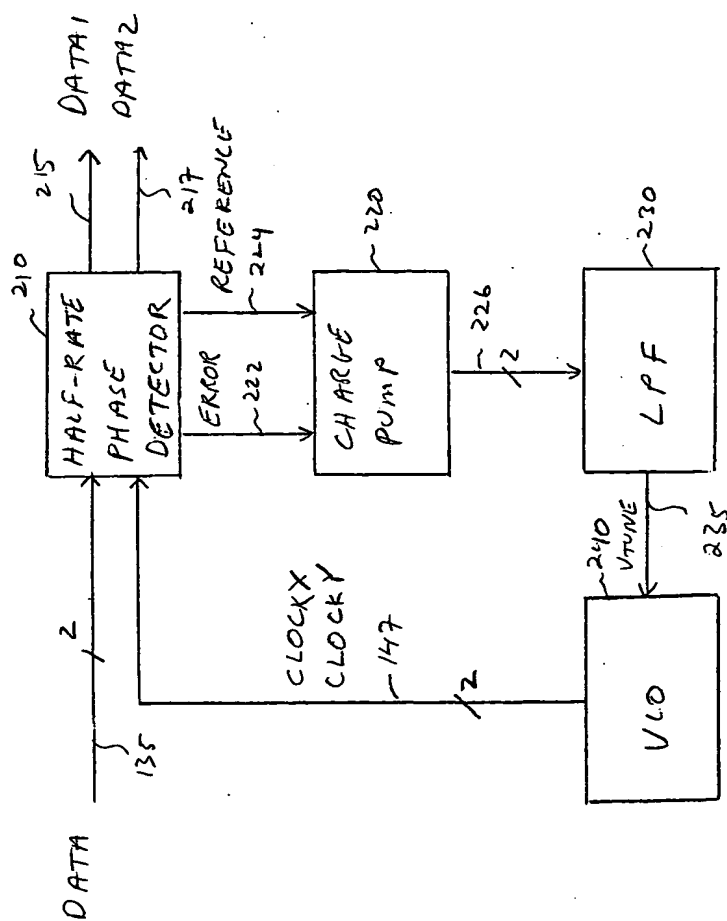
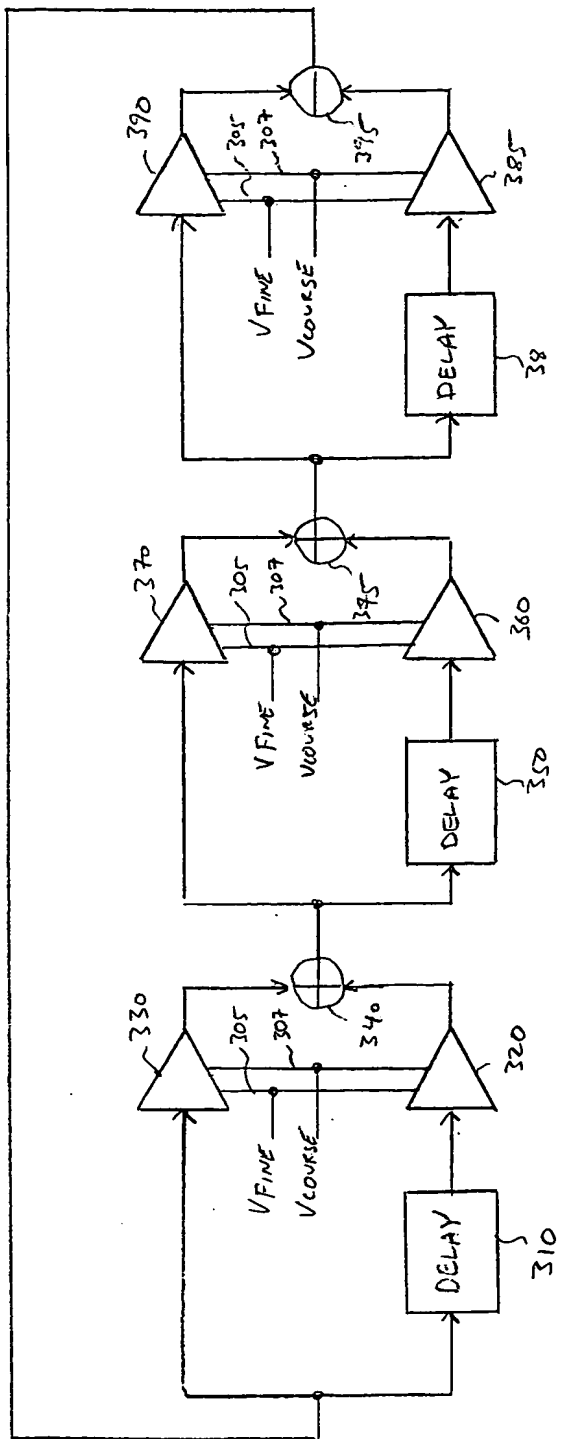


FIGURE 2



300

FIGURE 3

500

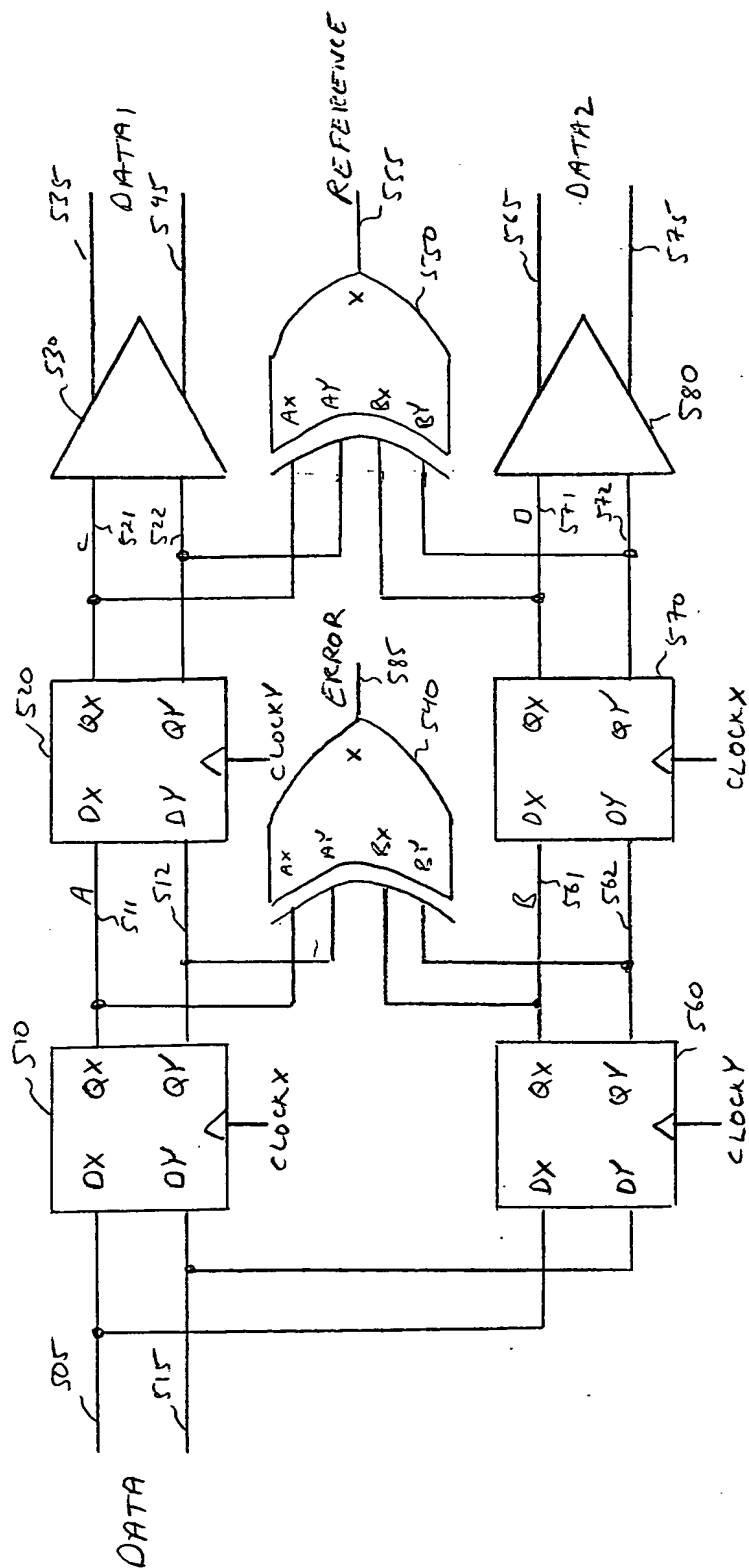


FIGURE 5

6000 209250

6000

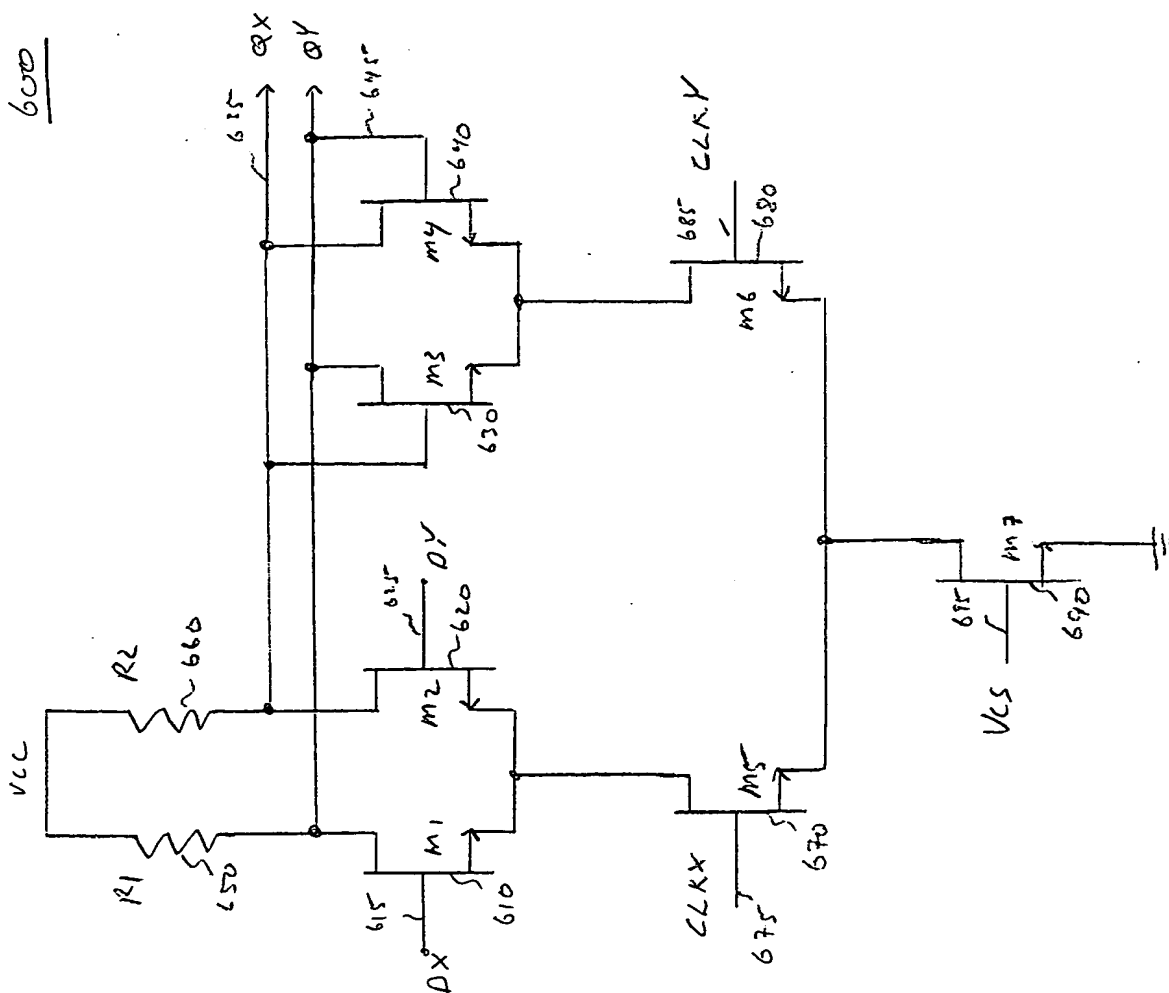


Figure 6

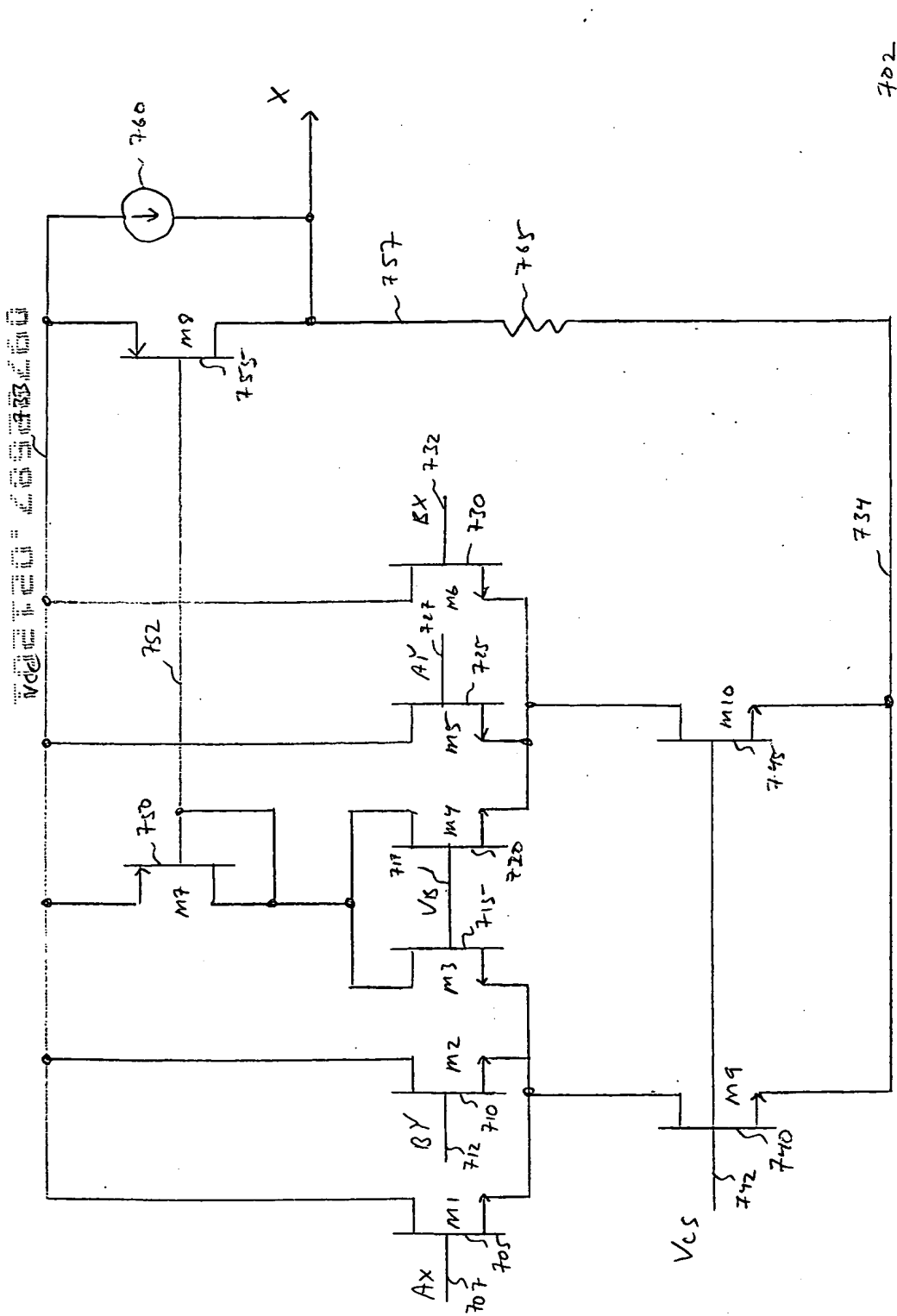


FIGURE 7B

700

A	B	$A \oplus B$	\overline{A}	$\overline{A+B}$	$\overline{A+B}$	$\overline{(A+B)} + (A+B)$
0	0	0	1	0	0	0
0	1	1	1	0	1	1
1	0	1	0	1	0	1
1	1	0	0	0	0	0

FIGURE 7A

702

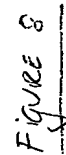


Figure 8

TABLE 2

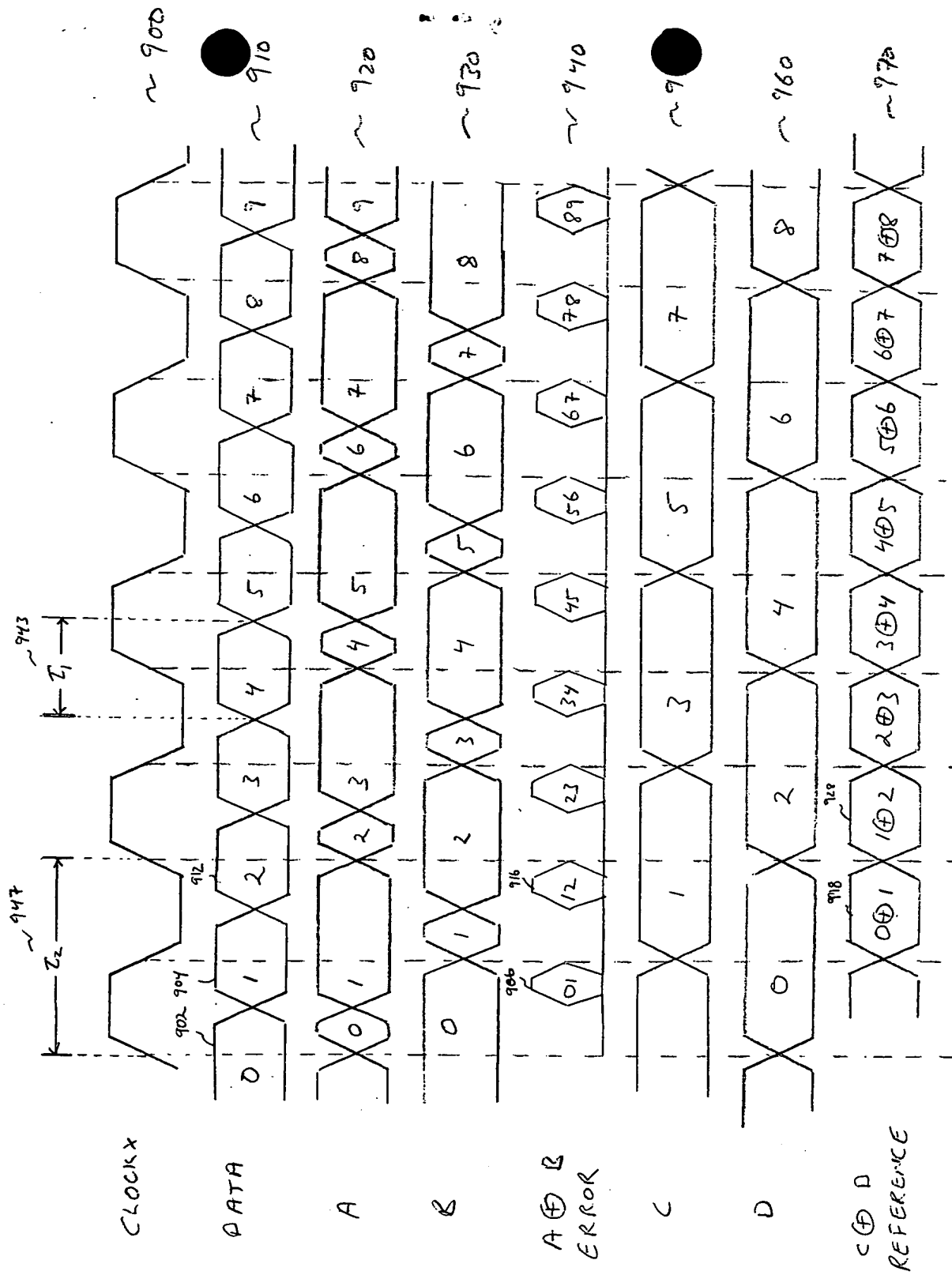


Figure 9

FIGURE 10

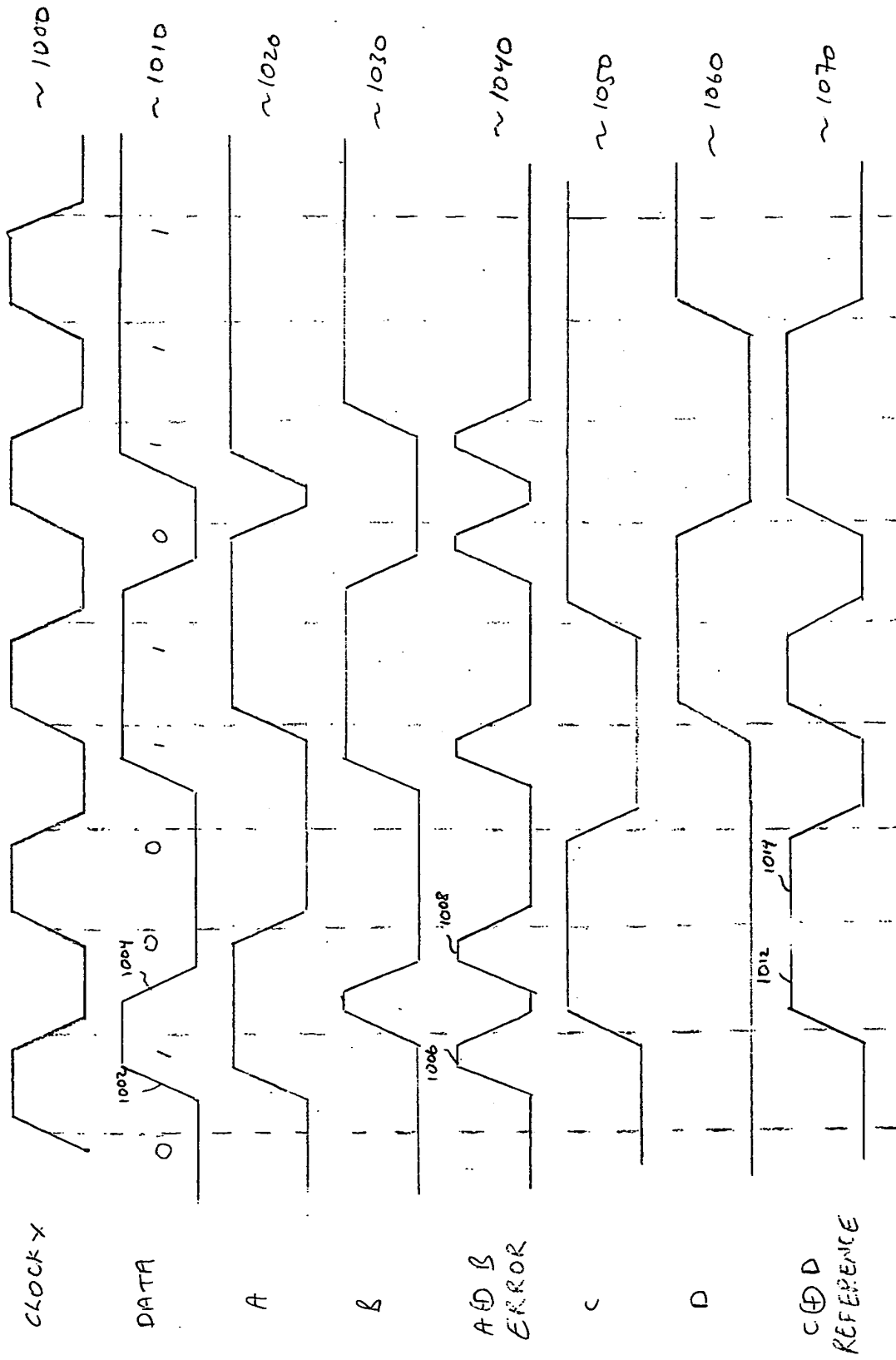


Figure 10

Timing diagram showing waveforms for CLOCK, DATA, A, B, $A \oplus B$, ERROR, C, D, and $C \oplus D$ REFERENCE. The diagram includes address labels 1100 through 1170 and data labels 1102, 1104, 1106, 1108, 1112, 1114. The ERROR signal is high during the period between 1106 and 1108.

[illegible]

1200

1200

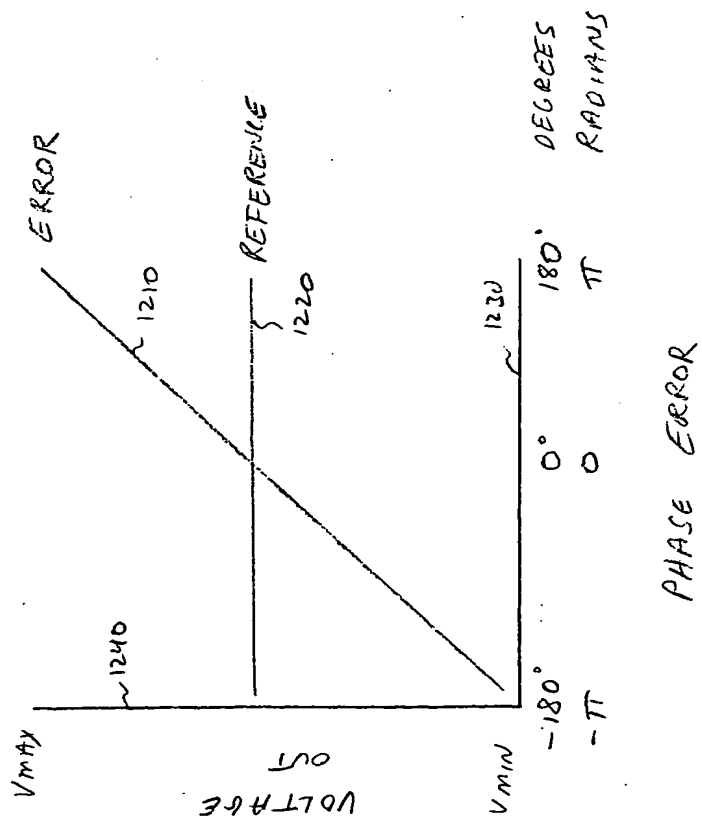


FIGURE 12

PROVIDE AN INPUT DATA SIGNAL, A CLOCK SIGNAL, AND A COMPLEMENTARY CLOCK SIGNAL.

1310

APPLY THE INPUT DATA TO A FIRST LATCH CLOCKED BY THE CLOCK SIGNAL.

1320

APPLY THE INPUT DATA TO A SECOND LATCH CLOCKED BY THE COMPLEMENTARY CLOCK SIGNAL.

1330

APPLY THE OUTPUT OF THE FIRST LATCH TO A FIRST XOR GATE AND A THIRD LATCH.

1340

APPLY THE OUTPUT OF THE SECOND LATCH TO THE FIRST XOR GATE AND A FOURTH LATCH.

1350

APPLY THE OUTPUT OF THE THIRD LATCH AND THE FOURTH LATCH TO A SECOND XOR GATE.

1360

USE THE OUTPUT OF THE FIRST XOR GATE AS AN ERROR SIGNAL, THE OUTPUT OF THE SECOND XOR GATE AS A REFERENCE SIGNAL, THE OUTPUT OF THE THIRD LATCH AS A FIRST DATA OUTPUT, AND THE OUTPUT OF THE FOURTH LATCH AS A SECOND DATA OUTPUT.

1370

SUBTRACT THE ERROR SIGNAL FROM $1/2$ THE REFERENCE SIGNAL, AND FILTER.

1380

USE FILTER OUTPUT TO ADJUST CLOCK AND COMPLEMENTARY CLOCK SIGNALS.

1390

FIGURE 13

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